

Widmaier, O.
REACTION DECOMPOSITION OF TETRAETHYLLEAD
FUEL. [1963] [20p] 15refs
Order from SLA \$1.60

63-18973

Trans. of Brennstoff-Chemie (West Germany) 1953,
v. 34 [no. 5/6] p. 83-87.

DESCRIPTORS: *Ethyl radicals, *Lead compounds,
*Gasoline, *Fuels, Decomposition, Hydrocarbons,
Antiknock, Combustion.

Autoclave experiments with a 10% ethyl fluid-gasoline
solution have shown that by use of a S-free gasoline,
lead bromide, lead oxide, lead triethyl bromide, and
oxidized hydrocarbons are formed as decomposition
products. The decomposition of ethyl fluid is highly
temperature-dependent. With temperatures up to
100°C and pressures from 20-60 kg./cm.² the main
(Materials--Fuels, TT, v. 10, no. 12) (over)

63-18973

1. Title: Tetraethyl lead
1. Widmaier, O.

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Office of Technical Services

Widmaier, O.

INFLUENCE OF SULFUR COMPOUNDS UPON THE
KNOCK RATING AND RESIDUE FORMATION IN
LEADED FUELS. 28 Apr 47, 12p. (figs. omitted)
4 refs.

Order from OTS or SLA \$1.60

63-14309

Trans. of mono. [Einfluss von Schwefelverbindungen
auf die Klopfestigkeit und Rückstandsbildung bei
Verbrennungs Kraftstoffen] n.p., n.d., 7p. (PB-24136).

DESCRIPTORS: *Fuels, *Lead, Sulfur compounds,
Knocking, Colloids, *Fuel additives.

In general the addition of tetraethyllead to fuels calls
forth a certain reaction, varying with the type of
fuel, which results in an increase in the knock rating.
This so-called lead sensitivity depends upon the com-
position of the fuel and upon its treatment. It is very
high for the so-called straight-run fuels and com-
(Materials--Fuels, TT, v. 10, no. 3) (over)

63-14309

I. Widmaier, O.
II. PB-24 136

Office of Technical Services

Widmaier, O.

A MORE SIMPLIFIED RAPID METHOD FOR THE DETERMINATION OF TETRAETHYLLLEAD IN AIRCRAFT ENGINE FUELS. 17 Feb 48, 8p. (figs. omitted) 1 ref. Order from OTS or SLA \$1.10

63-10955

Trans. of mono. [Weiter Vereinfachtes Schnellverfahren zur Bestimmung des Bleitetraethylgehaltes in Flugmotorenkraftstoffen] n. p., 13 July 40 [13p.] (PB-36649).

DESCRIPTORS: *Aviation fuels, *Lead compounds, *Ethyl radicals, Quantitative analysis, Iodine, Alcohols, Solutions, Fuels.

The tetraethyllead content of aviation fuels has been determined in the past either gravimetrically as lead chromate and lead sulfate, or volumetrically by precipitation with excess potassium chromate and back titration of the excess. These methods yield good results, but (Materials--Fuels, TT, v. 10, no. 3) (over)

63-10955

I. Widmaier, O.
II. PB-36 649

Office of Technical Services

Widmaier, O. and Nenninger, L.
DEVELOPMENT AND SIGNIFICANCE OF TETRA-
ETHYLLEAD AS AN ANTIKNOCK AGENT. 23 Feb 48,
40p. 302 refs.
Order from SLA \$3.60

63-14293

Trans. of [Technische Hochschule, Stuttgart.
Forschungsinstitut für Kraftfahrwesen und Fahrzeug-
motoren. Berichte] (Germany) 1942, v. 9, p. 109-121.

DESCRIPTORS: *Lead compounds, *Ethyl radicals,
Fuel additives, Antiknock, Synthetic (Chemistry),
Quantitative analysis, Physiology, Bibliographies.

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Introduction and significance of tetraethyllead as an
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Historical review
Preparation of tetraethyllead
Forms in which tetraethyllead is used
(Materials, properties)

63-14293

1. Title: Tetraethyllead
- I. Widmaier, O.
- II. Nenninger, L.

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Widmaler, O.

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1. Title: Tetraethyl lead
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... very fluid is lead oxide; at higher temperatures and different pressures the formation of $PbBr_2$ is favored. The lead triethyl bromide formed at low temperatures up to 100°C and high pressures (60 kg./cm.²) has a favorable antiknock action. (Author)

PB.

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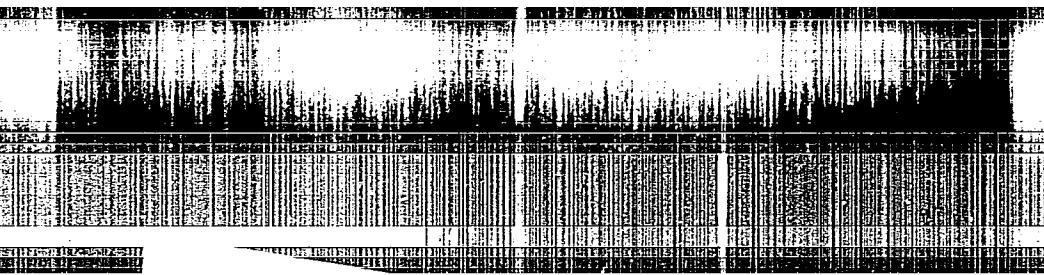
63-14309

I. Widmaier, O.
II. PB-24 136

Office of Technical Services

APPROVED FOR RELEASE: Thursday, May 16, 2002

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...ciently used in the refining process. Since sulfuric acid persists that traces of sulfur remaining in the fuels have an unfavorable effect. Artificially added sulfur compounds have, in fact, a significant effect. The results of the investigation show the influence of sulfur compounds upon the knock rating. In addition, a discussion is given of gum formation in sulfur-bearing leaded fuels and their stability to light.
(Author)

PB.

62-14309

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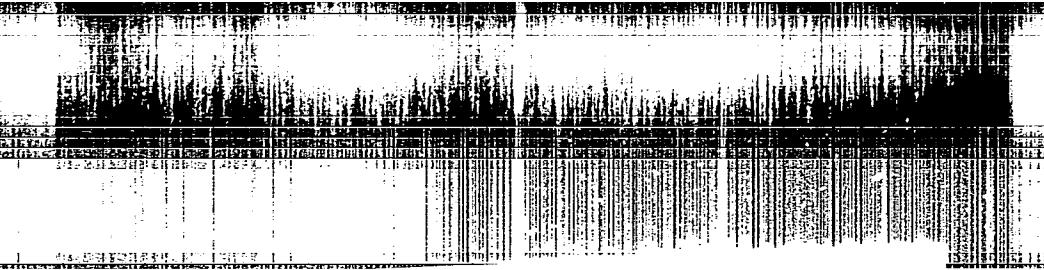
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(over)

63-14293

I. Title: Tetraethyllead
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II. Nenninger, L.

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Office of Technical Services

Use of tetraethyllead as an antiknock agent
Physicochemical properties of tetraethyllead
Physiological effects of tetraethyllead
Detection and determination of tetraethyllead
Summary
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DESCRIPTORS: *Ferrites, Production, Ferromagnetic
materials, Ceramic materials, Ferrite cores,
Permeability, High frequency, Low temperature
research, Hysteresis.

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Jun 59

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Trans. of Wien[er] Z[ei]tschr[ift für] inn[ere]
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DESCRIPTORS: Drugs, *Morphine, *Analgesics,
*Narcotics, Pharmacology, Respiration, Toxicity,
*Nicotinic acid, Esters.

The dinitroic acid ester of morphine marketed as
Vilan, was tested in a number of patients. Effect and
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(Biological Sciences - Pharmacology, TI, v. 8, no. 9)
(over)

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Office of Technical Services

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Order from LC or SLA mi\$1.80, ph\$1.80 61-15045

Trans. of Danish patent 82,686, cl. 81 c - 15,
patented from 26 Nov 54, granted 17 Dec 56, pub.
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Tubes, preferably of soft plastic material, are described with a discharge nozzle provided with an outer thread, whereon a cap with a central opening in the end surface or point is screwed. The nozzle, except for one or more slots, is closed at the front end. The slot or slots are arranged in such a way that, when the cap is screwed on, they are located at the side of the central opening in the cap.

(Food, Handling, and Packaging Equipment--
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